

Title (en)

CHAIN-LINK CONVERTER FOR HYDROGEN ELECTROLYZER RECTIFIER IN LARGE ELECTROLYZER STATIONS

Title (de)

KETTENUMRICHTER FÜR WASSERSTOFF-ELEKTROLYSEUR-GLEICHRICHTER IN GROSSEN ELEKTROLYSEUR-STATIONEN

Title (fr)

CONVERTISSEUR MAILLON-CHAÎNE POUR REDRESSEUR D'ÉLECTROLYSEUR À HYDROGÈNE DANS DE GRANDES STATIONS D'ÉLECTROLYSEUR

Publication

EP 4300804 A1 20240103 (EN)

Application

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Priority

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Abstract (en)

[origin: WO2024002978A1] The present disclosure relates to a system (100) and a method for use with an electrolyzer unit or a fuel cell are disclosed. The system comprises a converter unit (120) comprising a plurality of serially-connected converter cell units (140). At least one of the plurality of serially-connected converter cell units comprises a first terminal (147) and a second terminal (149). The at least one of the plurality of serially-connected converter cell units is dedicated to individually provide a direct current to one electrolyzer unit (160a) or to receive power from at least one fuel cell (160b), connected between the first terminal and the second terminal. The system further comprises a control unit (170) configured to control the direct current output from the at least one of the plurality of serially-connected converter cell units based on a reference value for driving the electrolyzer unit or to receive power from the at least one fuel cell. The present disclosure further relates to a method for controlling such a system.

IPC 8 full level

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Citation (search report)

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